

SEQUENCE LISTING

<110> INSTITUT PASTEUR

<120> N-deoxyribosyl transferases of Lactobacillus fermentum and use for the enzymatic synthesis of 2',3'-dideoxynucleosides and 2',3'-didehydronucleosides

<130> BIF 116236 FR

<160> 12

<170> PatentIn version 3.1

<210> 1

<211> 504

<212> DNA

<213> Lactobacillus fermentum filed at Genbank accession N° AY064168

<400> 1

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gtaggaactt ccgatgtctg cgttgcttta tacgatattg accaaattga cgaaggaatt      300
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Ser Phe Phe Asn Glu Glu Gln Arg Ala Arg Ile Pro Gln Ala Leu Ala
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Gln Leu Glu Ala Asn Pro Thr Val Gly Val Val His Gln Pro Phe Asp
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Phe Gln Tyr Lys Asp Ala Arg Val Asp Ser Asp Pro Ala Gly Val Phe
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 65 70 75 80
 Val Gly Thr Ser Asp Val Cys Val Ala Leu Tyr Asp Met Asp Gln Ile
 85 90 95
 Asp Glu Gly Ile Cys Met Glu Ile Gly Met Phe Val Ala Leu His Lys
 100 105 110
 Pro Ile Val Leu Leu Pro Phe Thr Lys Lys Asp Lys Ser Ala Tyr Glu
 115 120 125
 Ala Asn Leu Met Leu Ala Arg Gly Val Thr Thr Trp Leu Glu Pro Asn
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Met Lys Asn Thr Asp Pro Val Ala Asn Thr Lys Ile Tyr Leu Thr Thr
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Ser Phe Phe Asn Glu Glu Gln Arg Ala Arg Ile Pro Gln Ala Leu Ala
20 25 30

Gln Leu Glu Ala Asn Pro Thr Val Gly Val Val His Gln Pro Phe Asp
35 40 45

Phe Gln Tyr Lys Asp Ala Arg Val Asp Ser Asp Pro Ala Gly Val Phe
50 55 60

Gly Ser Leu Glu Trp Gln Ile Ala Thr Tyr Asn Asn Asp Leu Asn Ala
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Val Gly Thr Ser Asp Val Cys Val Ala Leu Tyr Asp Met Asp Gln Ile
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Asp Glu Gly Ile Cys Met Glu Ile Gly Met Phe Val Ala Leu His Lys
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Pro Ile Val Leu Leu Pro Phe Thr Lys Lys Asp Lys Ser Ala Tyr Glu
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Ala Asn Leu Met Leu Ala Arg Gly Val Thr Thr Trp Leu Glu Pro Asn
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Pro Phe Pro Pro Phe Lys Val Phe
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